Prepped by Ollie Stewart

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ETHYL CORPORATION

Health and Environment Department

Donald R. Lynam, Ph.D.

Director, Air Conservation
and Industrial Hygiene

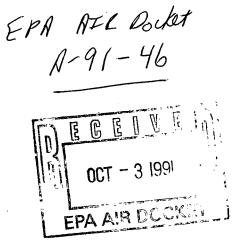
October 2, 1991

Ethyl Tower 451 Florida Baton Rouge, LA 70801 504/388-8008 Cable Address: ETHYLBR TELEX 586-441

OVERNIGHT MAIL

Mr. David L. Kulp Manager, Fuel Economy Planning & Compliance Ford Motor Company The American Road Dearborn, Michigan 48121

Dear Mr. Kulp:



In accordance with your request for additional test data from the Ethyl test fleet, we are enclosing the data dropped from Ethyl data set 2S (136 data points) and 4S (151 data points). The Systems Applications, Inc. final report, entitled "Appendix 2A: Statistical Analysis of Automotive Exhaust Emissions in Support of Ethyl's HiTEC® 3000 Fuel Waiver application," May 4, 1990, and included in the May 9, 1990 Waiver Submission, includes a complete discussion of the data sets and data set generation in Section 2, Testing Program Data Base. The discussion of data set generation and description of data sets is attached (pages 10-15). The 136 data points dropped from Ethyl 2S are all tests invalid from an engineering point of view and therefore are considered justifiable drops. The 151 data points dropped from Ethyl 4S are the extra tests beyond the standard first two emission tests. The data sets are fully described in the SAI report. Please let us know if additional clarification is required.

We wanted to thank you for sending us the raw data from Ford Motor Company's ("Ford") recent test program on the HiTEC® 3000 performance additive. To aid us further in evaluating Ford's raw data, Ethyl would like to learn more about the Ford test program. In particular, we believe that the following information will be necessary for a meaningful evaluation of the data:

- Any available maintenance information in addition to that which was provided as part of the raw emission data sheets you provided to Ethyl. This would include information on both scheduled and unscheduled maintenance, reason for service, listing of components replaced and why the decision to replace was made.
- Identification of individual drivers for each emission test and for each test vehicle, including the process used to assign drivers to test vehicles.
- A description of the type and purpose of the test programs (including test protocols) on which the Additive testing was piggybacked.

Excerpt

Final Report

APPENDIX 2A: STATISTICAL ANALYSIS OF AUTOMOTIVE EXHAUST EMISSIONS IN SUPPORT OF ETHYL'S HITEC® 3000 FUEL WAIVER APPLICATION

SYSAPP-90/037

May 4, 1990

Prepared for

Ethyl Petroleum Additives, Inc. 20 South 4th Street St. Louis, Missouri 63102

Prepared by

Systems Applications, Inc. 101 Lucas Valley Road San Rafael, California 94903

415/472-4011

- Listing of fuel batch numbers, fuel analysis and specifications, detergent, and other additives. Samples of test fuel, if available, would also be helpful.
- A detailed description of the Explorer "prototype" vehicle, including the thermactor being tested and purpose, and applicable emission standards calibration.
- Individual data on emission tests for CO, HC, NO_x, particulates, and manganese obtained in the particulate cells as part of the particulate analysis, together with mileage test points, and dates of testing.
- Information on mileage accumulation shifts, including number of shifts per day, length of shifts, and the approximate total number of hours the vehicles are driven per day.
- Any data on the driveability of the test vehicles throughout the course of the test program.

In addition, once you have completed your ongoing test programs, we would appreciate information and data on any post mortem analyses of vehicle components, including catalysts, O_2 sensors, fuel injectors, and any other engine parts. We look forward to receiving more details about the Ford test program.

Sincerely,

Donald R. Lynam, Ph.D., CIH, PE

Director, Air Conservation,

Doraed R. Lyron

Industrial Hygiene and Safety

DRL:cr Enclosures

cc: Mary T. Smith

Field Operations and Support

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DATA SET GENERATION

Special attention was given to the creation of the data sets for analysis. This step is important because it defines the information used in the statistical tests and its presentation in the waiver.

In 43 Federal Register 11258 (March 17, 1978) the EPA published a series of guidelines that apply to waiver applications for fuel additives under Section 211(f) of the Clean Air Act. In these guidelines the EPA states that "it is essential that test data provide a reliable basis for comparison with the conditions under which vehicles are certified pursuant to Section 206 of the Clean Air Act." Throughout this waiver program it has been generally assumed by Ethyl that the regulations that apply to the certification of new automobile models under the Clean Air Act would also apply to test programs for fuel waivers. For that reason, decisions on what data to include in the working data sets for analysis for this waiver application were based on the sections of the Code of Federal Regulations that pertain to certification and test procedures for exhaust emissions (40 CFR Part 86 as of January 31, 1990).

Because of the importance placed on those specific sections of the <u>Code of Federal</u> <u>Regulations</u>, we shall discuss several of the specific paragraphs that are relevant to this waiver application.

86.088-28(a)(4)(A) "The applicable results to be used unless excluded by paragraph (a)(4)(i)(A)(4) of this section in determining the exhaust emission deterioration factors for each engine-system combination shall be:

- 1. All valid exhaust emission data from the tests required under 86.084-26(a)(4) except the zero-mile tests.
- 2. All exhaust emission data from the tests conducted before and after the scheduled maintenance provided in 86.088-25.
- 3. All exhaust emission data from tests required by maintenance approved under 86.088-25, in those cases where the Administrator conditioned his approval for the performance of such maintenance on the inclusion of such data in the deterioration factor calculation.

4. The manufacturer has the option of applying an outlier test procedure to completed durability data.... The outlier procedure will be specified by the Administrator. For any pollutant, durability-data test points that are identified as outliers shall not be included in the determination of deterioration factors if the manufacturer has elected this option."

Comments: These paragraphs imply that all emissions test results except those associated with the zero-mile point and those conducted before unscheduled maintenance be used in the statistical analysis. This would include all results obtained before and after scheduled maintenance and after unscheduled maintenance. Examination of the data in the initial stages of analysis revealed no outliers, and so no tests were deleted as a result of an outlier test procedure.

86.084-26(aX6XiXA) "The manufacturer may conduct multiple tests at any test point at which the data are intended to be used in the deterioration factor. At each test point where multiple tests are conducted, the test results from all valid tests shall be averaged to determine the data point to be used in the deterioration factor calculation except under paragraph (aX6)(i)(B) of this section. The test results from emission tests performed before maintenance affecting emissions shall not be averaged with test results after the maintenance".

86.084–26(aX6XiXB) "The manufacturer is not required to average multiple tests if the manufacturer conducts no more than three tests at each test point and if the number of tests at each test point is equal. All test points must be treated the same for all exhaust pollutants".

86.088-28(a)(4)(i)(B) "All applicable exhaust emission results shall be plotted as a function of the mileage on the system, rounded to the nearest mile, and the best fit straight lines, fitted by the method of least squares, shall be drawn through all these data points".

Comments: The implication of the first two paragraphs is that the means for each car at each testing interval should be weighed equally. This assumes that the mean emissions for each individual vehicle is the same as that for all vehicles in the same model group on the same fuel. Therefore careful consideration must be given to those instances where there are a different number of tests per car per testing interval. When the design is balanced (i.e., the same number of tests for each vehicle at each testing interval), the same regression line will be predicted whether one uses all the data or just the averages (although confidence intervals will be

different). However, in a design that is unbalanced the predicted regression line using all data will differ from that predicted from one using average data.

DESCRIPTION OF DATA SETS

The data sets used in the statistical analyses to examine whether HiTEC 3000 causes or contributes to the failure of emission control systems were generated from raw data supplied to SAI (as Lotus 123 spreadsheets) by the mileage accumulation test laboratories. The data sets were constructed sequentially, each data set being a subset of the previous data set. The data sets created and the emissions tests excluded at each step are as follows:

- ETHYLOS Data set as received from the mileage accumulation test laboratory. No records are excluded, except one test for the replacement vehicle designated D3A: the single test of D3A at 15,554 miles (initial mileage upon receipt). All tests of the replacement car with the old car's emissions control system (labeled as D3A) are included.
- ETHYLIS All zero-mile tests are excluded, as per 40 CFR 86.088-28(a)(4)(i)(A)(1).
- All tests that are invalid from an engineering point of view and therefore considered to be "justifiable drops" are excluded. These include the 1,000 mile tests conducted at Automotive Testing Laboratories whose exclusion is justifiable on both statistical and engineering grounds (See Appendix 1 and Attachment F). Also dropped in this data set are all measurements from vehicle D3A.
- ETHYL3S Tests preceding unscheduled maintenance tests are excluded per 40 CFR 86.088-28.
- ETHYL4S Extra tests beyond the standard two tests are excluded. If these tests were included, the variance calculations for the statistical tests would be biased. These are the tests that were performed because the results from the first two tests were considered to be too discrepant. In the

majority of instances the mileage intervals have only two tests per vehicle. In data set ETHYL3S, for example, only about 25 percent of the testing intervals have extra tests. There are three types of exceptions to this use of only two tests at each mileage interval. First, at scheduled maintenance (35,000 miles and 60,000 miles for model group D; 30,000 miles and 60,000 miles for all other model groups), emissions were tested before and after maintenance; thus for these intervals there are typically four tests (two before and two after maintenance). Second, tests performed after unscheduled maintenance are considered separately from tests at the required mileage intervals. For example, vehicle H1 has four tests at the 40,000 mile interval — two for the unscheduled maintenance at 37,826 miles and two for the regular 40,000 mile tests. Third, tests were performed before and after 50,000 mile component changes. At this mileage point there are typically four tests (two before and two after component changes).

On October 12, 1989 a meeting was held in Washington, D.C. with representatives from the EPA's Office of Mobile Sources to review the statistical analysis work that had been completed to date. At that meeting a presentation was made and discussion held on the relevant sections of the <u>Code of Federal Regulations</u>, the data sets generated, and the justification for dropping data points based on the interpretation of the CFR. Following this review, the EPA indicated that the approach taken seemed "reasonable".

ADDITIONAL DATA SETS FOR 75,000 MILE ACCUMULATION

As mentioned above, the original design of the HiTEC 3000 testing program called for only 50,000 accumulated miles and emissions testing in accordance with current requirements under Section 211(f) of the Clean Air Act. The scope of the testing program was increased to include 75,000 miles of vehicle operation in light of the ongoing debate concerning reauthorization of the Act.

Because of the change in mileage accumulation, certain aspects of the testing program that had been completed needed to be reviewed to insure that the data past

50,000 miles would be internally consistent with data up to and including 50,000 miles. The aspect that most obviously demanded evaluation was the component changes that had occurred at 50,000 miles. As discussed earlier, these changes were made to determine what effects on tailpipe emissions were the result of the deterioration of components up to 50,000 miles. An analysis of the data following the 50,000 mile component changes indicated that, in general, statistically significant increases in emissions from vehicles occur about as frequently as statistically significant decreases in emissions; however some changes were substantially larger than others (see Attachment G). For example, in model group D a very large and statistically significant decrease in CO emissions occurred with both fuel types. Further, the vehicles in this model group fueled with HiTEC 3000 also exhibited a statistically significant decrease in HC emissions after component changes. In addition, in model groups G and H, increases in HC and CO emissions from vehicles using HiTEC 3000 were found to be statistically significant, while increased emissions from vehicles using the clear fuel (Howell EEE) were nonsignificant. These changes can be seen in the data plots in Attachment B.

The change in mileage accumulation scope also required reevaluation of tester bias. As discussed previously, most of the pre-50,000 mile tests at ECS were performed by one individual. Tests after 50,000 miles were conducted by other ECS testers while the original tester was on sick leave. This change raised the question of whether emission test results were affected in any way by the use of several testers. If a tester bias did exist, it would be more difficult to estimate how much of the variance between results was associated with the fuel type as opposed to the tester. Again, an analysis was conducted to determine if tester choice had statistically significant effects on test results. For example, a statistical test was performed on model group D for HC. The results from this test, as well as those for other model groups, are reported in Attachment H and indicate that statistically significant differences from the original tester are evident in many model groups and for all three pollutants.

In order to properly and consistently analyze all of the data from the mileage accumulation program to 75,000 miles, three new data sets were created from data set ETHYL4S. These data sets, which are adjusted for component change and tester effects, are as follows:

ETHYL4S2 The two emissions tests performed after the component changes at 50,000 miles are deleted for all vehicles in the program. The tests performed before component changes are retained.

ETHYL4S3 Adjustments for component changes are calculated from the statistical analysis discussed in Attachment G (the effect for each pollutant/fuel/model combination is calculated separately as the mean effect across vehicles) for all measurements past 50,000 miles.

ETHYL4S4 Adjustments for tester effects at ECS Laboratories are added to all measurements after 50,000 miles in data set ETHYL4S2. Details of the analysis are provided as Attachment H.

The main data set for assessing the effects of HiTEC 3000 is ETHYL4S2; a complete listing of this data set is provided as Attachment A. Some analysis was repeated on ETHYL4S, ETHYL4S3, and ETHYL4S4, with little change in results or interpretation. The results are described in detail in Section 4.

The numbers of emissions tests read, kept, and dropped in each data set are shown below:

Data Set	Read	Kept	Dropped
ETHYLOS	2605	2604	1
ETHYLIS	2604	2440	164
ETHYL2S	2440	2304	136
ETHYL3S	2304	1965	339
ETHYL4S	1965	1814	151
ETHYL4S2	1814	1712	102

1

		Vehicle			НC	СО	NOx
OBS	Model	ID	Fuel	Mileage	(g/mi)	(g/mi)	(g/mi)
1	D	D2	EEE	45,094	0.658	5.322	0.469
2	D	D4	HT3	35,161	0.645	3.505	0.427
3	D	D4 D4					
			HT3	40,133	0.616	4.162	0.413
4	D	D4	HT3	44,786	0.580	4.908	0.416
5	D	D4	HT3	50,166	0.581	3.490	0.417
6	D	D4	HT3	50,184	0.607	3.619	0.384
7	D	D5	HT3	35,049	0.579	4.459	0.452
8	D	D5	HT3	45,151	0.740	4.943	0.551
9	D	D5	HT3	48,433	0.924	4.960	0.441
10	D	D5	HT3	48,444	0.796	4.617	0.404
11	D	D6	HT3	35,152	0.550	3.979	0.437
12	D	D6	HT3	45,113	0.646	5.790	0.480
13	D	D6	HT3	49,985	0.680	6.173	0.476
14	E	E2	EEE	45,090	0.266	6.490	0.415
15	Ē	E2	EEE	50,181	0.323	7.928	0.531
16	Ē	E3	EEE	30,048	0.175	4.573	0.291
17	E	E5	HT3	40,048	0.214	4.963	0.424
18	E	E6	HT3	50,040	0.199		
						6.250	0.396
19	F	F1	HT3	49,943	0.688	1.747	0.582
20	F	F1	HT3	75,099	0.698	1.067	0.607
21	F	F2	HT3	30,401	0.571	1.240	0.640
22	F	F2	HT3	45,067	0.608	1.251	0.764
23	F	F2	HT3	50,040	0.614	1.364	1.173
24	F	F3	HT3	15,118	0.392	0.757	0.727
25	F	F3	HT3	45,128	0.610	1.274	0.687
26	F	F3	HT3	67,052	0.578	1.623	0.840
27	F	F3	HT3	67,070	0.573	1.248	0.764
28	F	F4	EEE	1,045	0.169	0.398	0.485
29	\mathbf{F}	F4	EEE	45,052	0.745	2.897	1.060
30	F	F4	EEE	45,070	0.651	2.413	1.390
31	F	F4	EEE	50,126	0.668	2.830	1.442
32	F	F4	EEE	55,006	0.653	4.909	1.808
33	F	F5	EEE	50,118	0.596	2.253	0.978
34	F	F5	EEE	50,166	0.618	1.939	1.037
35	F	F5	EEE	66,536	0.515	2.284	1.097
36	F	F5	EEE	66,554	0.482	2.131	1.141
37	F	F6	EEE	30,170			
38	F				0.645	1.878	0.816
		F6	EEE	34,995	0.505	1.518	0.699
39	F	F6	EEE	45,216	0.700	2.145	0.779
40	F	F6	EEE	50,042	0.715	2.470	0.870
41	T	T1	HT3	24,968	0.383	3.843	0.508
42	T	T1	HT3	45,004	0.417	5.017	0.536
43	T	T1	HT3	50,078	0.516	6.576	0.665
44	${f T}$	T2	EEE	45,124	0.381	4.400	0.579
45	${f T}$	T2	EEE	50,044	0.491	6.735	0.873
46	${f T}$	Т3	EEE	25,004	0.300	3.718	0.707
47	T	T 3	EEE	50,037	0.420	6.710	0.801
48	T	T4	HT3	1,149	0.188	1.555	0.488
49	T	T4	HT3	5,273	0.248	2.632	0.465
50	Ť	T5	HT3	24,994	0.360	4.172	0.430
51	Ī	T 5	HT3	40,082	0.441	5.648	0.596
52	T.	T6	EEE	5,215	0.224	1.992	1.034
53	Ċ.	C1	EEE	20,090	0.243	2.233	0.373
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Data Set ETH4SPRG

54		-	Vehicle			нс	со	NOx
55 C C1 EEE 35,165 0.149 1.954 0.320 56 C C2 HT3 20,090 0.198 2.160 0.314 57 C C2 HT3 30,180 0.209 3.360 0.234 59 C C2 HT3 50,059 0.221 4.004 0.379 60 C C2 HT3 50,059 0.299 3.308 0.437 61 C C3 HT3 15,064 0.258 2.911 0.229 62 C C3 HT3 20,059 0.199 2.118 0.246 63 C C3 HT3 30,060 0.249 3.308 0.437 64 C C3 HT3 30,131 0.182 2.102 0.238 65 C C3 HT3 30,311 0.182 2.102 0.238 66 C C3 HT3 35,512 <td< td=""><td>OBS</td><td>Model</td><td>ID</td><td>Fuel</td><td>Mileage</td><td>(g/mi)</td><td>(g/mi)</td><td>(g/mi)</td></td<>	OBS	Model	ID	Fuel	Mileage	(g/mi)	(g/mi)	(g/mi)
56 C C2 HT3 20,000 0.198 2.160 0.314 57 C C2 HT3 30,100 0.206 2.644 0.185 58 C C2 HT3 30,180 0.209 3.360 0.234 59 C C2 HT3 50,059 0.221 4.004 0.375 60 C C2 HT3 50,059 0.221 4.004 0.375 61 C C3 HT3 15,064 0.258 2.911 0.246 62 C C3 HT3 20,059 0.199 2.118 0.246 63 C C3 HT3 30,060 0.249 3.308 0.437 64 C C3 HT3 30,060 0.240 3.382 0.266 65 C C3 HT3 30,131 0.182 2.129 0.193 66 C C3 HT3 30,064 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>								
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88 G G2 EEE 40,112 0.213 2.194 0.363 89 G G2 EEE 55,067 0.129 2.408 0.389 90 G G2 EEE 60,085 0.109 2.543 0.402 91 G G3 HT3 51,110 0.183 2.248 0.390 92 G G3 HT3 60,060 0.178 2.883 0.401 93 G G4 EEE 51,104 0.132 2.194 0.365 94 G G5 HT3 51,132 0.283 2.192 0.357 95 G G5 HT3 60,124 0.153 2.140 0.422 96 G G6 HT3 51,118 0.169 2.350 0.369 97 G G6 HT3 55,065 0.174 2.026 0.352 98 G G6 HT3 55,439 0.121 1.262 0.319 99 G G6 HT3 55,439 0.121 1.262 0.319 99 G G6 HT3 55,466 0.074 1.352 0.266 100 G G6 HT3 55,491 0.121 1.660 0.381 101 G G6 HT3 60,064 0.187 1.709 0.386 102 G G6 HT3 65,061 0.191 2.946 0.367 103 H H1 EEE 30,063 0.281 3.671 0.347 104 H H1 EEE 55,068 0.327 4.883 0.338 105 H H1 EEE 55,094 0.481 5.067 0.405	86		G1	EEE	65,120	0.175	2.637	0.346
89 G G2 EEE 55,067 0.129 2.408 0.389 90 G G2 EEE 60,085 0.109 2.543 0.402 91 G G3 HT3 51,110 0.183 2.248 0.390 92 G G3 HT3 60,060 0.178 2.883 0.401 93 G G4 EEE 51,104 0.132 2.194 0.365 94 G G5 HT3 51,132 0.283 2.192 0.357 95 G G5 HT3 60,124 0.153 2.140 0.422 96 G G6 HT3 51,118 0.169 2.350 0.369 97 G G6 HT3 55,065 0.174 2.026 0.352 98 G G6 HT3 55,439 0.121 1.262 0.319 99 G G6 HT3 55,491 <td< td=""><td>87</td><td>G</td><td>G1</td><td>EEE</td><td>65,139</td><td>0.164</td><td>2.518</td><td>0.317</td></td<>	87	G	G1	EEE	65,139	0.164	2.518	0.317
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91 G G3 HT3 51,110 0.183 2.248 0.390 92 G G3 HT3 60,060 0.178 2.883 0.401 93 G G4 EEE 51,104 0.132 2.194 0.365 94 G G5 HT3 51,132 0.283 2.192 0.357 95 G G5 HT3 60,124 0.153 2.140 0.422 96 G G6 HT3 51,118 0.169 2.350 0.369 97 G G6 HT3 55,065 0.174 2.026 0.352 98 G G6 HT3 55,439 0.121 1.262 0.319 99 G G6 HT3 55,466 0.074 1.352 0.266 100 G G6 HT3 55,466 0.074 1.352 0.266 100 G G6 HT3 55,491 0.121 1.660 0.381 101 G G6 HT3 60,064 0.187 1.709 0.386 102 G G6 HT3 65,061 0.191 2.946 0.367 103 H H1 EEE 30,063 0.281 3.671 0.347 104 H H1 EEE 55,068 0.327 4.883 0.338 105 H H1 EEE 55,094 0.481 5.067 0.405					•			
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	106	H	H1	EEE	55,113	0.417	4.760	0.398

138 139 140 144 144 144 144 147	138 140 142 142 143 144 145	139 1440 1442 1443 1444	138 139 1410 1421 1433	138 140 142 143	138 140 141 142	138 139 140 141 142	138 139 140 141	138 139 140	138 139	138		137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	122	121	120	119	118	117	716 CTT	3 L L 8 T T	TT3	112	111	110	109	0	107	OBS	1
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1173	HT3	HEH	EEE	EEE	HT3	HT3	HT3	EEE	HT3	HT3	HT3	HT3	HT3	HT3	HHH	EEE	프르크	HT3	HT3	HT3	HT3	HT3	HT3	HEE	HHH	EEE	HT3	HT3	HT3	HT3	HT3	HT-0	THE C		보 보 보 보 보	i Ei I Ei		H	ᄪ	HEE	EEE	Fuel	
יי	35,064	0,38	5,07	5,07	0,43	5,06	0,06	5,07	0,27	0,16	0,06	5,33	5 30	ກຸ 84	0,37	0,11	5,09	5,05	0,68	0,15	5,08	0,06	0,12	5,06	0,22	0,10	5.07	000	0,06	5.10	0,00	л с) -	ָ ער ה ער ה	5,12	5,11	0,09	5,09	0,16	0,10	0,05	5,13	Mileage	
23	0.186	. 17	. 18	. 17	. 15	. 15	. 21	. 17	. 21	. 18	20	23	. 17	20	16	. 18	. 17	. 46	. 42	კე	. 42	. 32	აგ	ယ ယ	22	. 22	33 C	ω,	24	ယ (ຸ . ນ ເ ນ ເ	ه ۲ د		, u	ω U	.37	2	32	ຜູ	. 24	0.436	(g/mi)	HC
. 44	1.965	. 24	. 22	. 46	32	. 96	. 76	. 15	. 40	31	61	. 49	23	ნ	. 76	. 77	. 28	. 02	.90	86	. 12	88	. 46	. 17	ယ ထ	ωį	. 14	4 4	. 10 10	10	, v	О С	1 E	. 80	96	0	7	N		Ō		(g/mi)	9
0.374	3	. 42	ω	. 39	ယ	မ	. 29	.37	30	ပ	ω 4	51	ភ (26	Α. ω	ယ ထ	ယ Մ	26	38	37	. 27	ω ω	. 30	42	ທຸ	 4. (5) (3 :	47	7	သ (၀	א מ	1 C	֖֖֖֖֖֖֝֝֝ בני	4.1	4. ن	4.5	3 1	. 32	.30	.34		(g/mi)	Nox

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NOX (g/mi)	0.164	.21	.22	16	.16	.19	. 23	91.	0 7	40	16	.19	.24	.12	.15	. 20	.18	. 24 4 1	. I.	• L3	* C	, t .	117	20	.17	.21	.15	.16	.16	.16	• T6	77.	ا ا	.18	.19	.35	.15	.13	. 22	.21	.32	.32	 v	2 7) T .	. A	4 4) •
CO (g/m;)	1.917	.32	. 84	. 16	.71	.38	.70	. 45 7	ο α • σ	, w	.27	.80	.78	.93	.03	80	.16	2.	19.	U L	. 5	, u	15	. 83	.84	.56	.87	.10	.14	9 6	מינ	77.	.03	.80	.72	99.	.98	. 69	.97	.05	. 56	.71	2.5	U .		טיר	.13	
HC (g/mi)	0.129	.15	. 188	13	.11	.13	.17	2 6		, 4 L	14.	.15	.15	.14	.13	. 12	133	٠ ۲ د د	• F	٠ ١٠ ٦		4.	16	11.	.13	.14	.09	11.	.12	900	200		12	.08	.08	.23	.10	.07	. 09	. 09	. 23	.21	97.	5 5 6	126	۲ م د	. 12	1
Mileage	1,053	60,	17,	, 05	, 07	60,	1,11) c	1,10	, 02	60,	,13	, 15	, 05	, 06	, 08	, 13	CT (5 5	֡֝֝֝֡֝֝֡֝֝֟֝֝֓֡֓֟֝֝֡֓֓֓֓֓֞֝֡֡֓֓֡֓֡֝֟֝֓֡֓֡֝֡֡֡֡֝֡֡֓֡֝֡֡֡֝֡֡֡֡֡֡֓֡֡֡֡֡֡֡֡	146	90	00,	,02	, 07	, 03	, 05	60,	, 03	50,00	0,0	, 04	1,04	1,06	,11	90,	60,	11,	1,14	00,0	9	20,0	׆ ֓֞֟֟֝֟	7,17		1,04	•
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Model	ပပ	ပ	ט ט	ပ	U	ပ	ນ ເ	ی ر	ט כ	o O	U	ပ	U	ပ	U I	ပ (ပ (ى ر	ى ر	ט ט	، د	ນ ບ	U	Ü	ပ	U	ტ i	ტ (უ (י פ	ש פ	ט ט	ტ	Ů	ტ	ש	י ט	უ (י פ	ט פי	ტ (י פ	י נ	ט ע	ט ע) ლ) II	
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NOX	(g/mi)	.44	.35	.37	.32	.34	0.581	. 54	.45	.39		.43	.30	.41	.38	.39	.44	.48	. 48	.16	.19	.17	.17	.38	.37	.35	.33	.38	.38	0.275	
8	(g/mi)	1.749	9	1.830	9	1.585	1.412	1.646	1.680	1.692	1.622	9	•	۲.	٠.		7	۲.	ð	0	7	4.	•	۲.	0	.7	0.	9.	0.	.7	1.916
HC	(g/mi)	0.162	7	7		0.165	۲.	0.165	0.143	↤	0.157	۲.	۲.	۲.	۲.	۲.	0.449	ო.	Ġ	0.179	۲.	Τ.	٦.	د .	7	۳	ო.	0.139	7	•	0.152
	Mileage	0	0	Н	0	0	1,	1,182	1,021	0	0	7	0	1,072	Ó	Ó	5,0	0	5,0	0	0	0	0	5,0		5,0	0,1	0	0		
	Fuel	BEE	EEE	EEE	HT3	HT3	HT3	HT3	三三三	EEE	HT3	HT3	BEE	EEE	HT3	HT3	HT3	HT3	HT3	333	EEE	HT3	HT3	HT3	HT3	HT3	HT3	EEE	HEE	HT3	HT3
Vehicle	Π	H1	H2	H2	Н3	H3	H4	H4	HS	HS	9H	9H	11	11	12	12	12	12.	12	I3	I3	14	14	14	14	14	14	I5	15	9I	91
:	Model	Ħ	Ħ	Ħ	H	н	Ħ	Ħ	Ħ	Ħ	щ	н	н	н	H	н	н	н	н	H	н	н	н	н	н	H	н	н	Н	н	H
	OBS	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136